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5 What is Claimed is:

1. An optical switch comprising:

a substrate:

an optical fiber input part in a predetermined region of the substrate;

an optical fiber output part in a predetermined region of the substrate at a distance

10 from the optical fiber input part to face each other:

a first micro-mirror part between the optical fiber input part and the optical fiber output part, for reflecting a light from the optical fiber input part; and,

a second micro-mirror part between the optical fiber input part and the optical fiber output part, at a distance from the first micro-mirror part to face each other for reflecting the light from the first micro-mirror part to the optical fiber output part.

- 2. An optical switch as claimed in claim 1, wherein the substrate has grooves of predetermined depths in the regions of the optical fiber input/output parts, and the first, and second micro-mirror parts for fixing the optical fiber input/output parts, and the first, and second micro-mirror parts thereto.
- An optical switch as claimed in claim 2, wherein the groove has upper sloped sides, and lower vertical sides, to form a 'Y'.
- 4. An optical switch as claimed in claim 2, wherein the groove has epoxy applied thereto, for fixing the optical fiber input/output parts, and the first, and second micro-mirror parts, thereto.

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- 5. An optical switch as claimed in claim 2, wherein the first, and second micro-mirror parts are arranged to be at 45° to an optical path of the light from the optical fiber input part.
- 6. An optical switch as claimed in claim 1, wherein each of the optical fiber input/output parts includes a silicon substrate, and a two dimensional array of a plurality of optical fibers fitted to the substrate, and each of the first, and second micro-mirror parts includes a silicon substrate, and a two dimensional array of a plurality of micro-mirrors fitted to the substrate.
- 7. An optical switch as claimed in claim 1, wherein the optical fiber input/output parts are fitted parallel to each other as one bundle, to face the first, and second micro-mirror parts at 45°.